

AMENDMENTS TO THE CLAIMS

1-22. (Canceled)

23. (Currently Amended) A vector comprising a nucleic acid sequence ~~at least 90% homologous to encoding an amino acid sequence, wherein said amino acid sequence contains a portion selected from the group consisting of residues 747-801, residues 679-799, residues 623-691, residues 316-381, residues 244-277, residues 186-221, and residues 95-121 of SEQ ID NO[[s]]: 2 + or 3~~, wherein said ~~vector nucleic acid~~ encodes a product that functions in division of a photosynthetic prokaryote or a plastid.
24. (Currently Amended) The vector of Claim 23, wherein said ~~nucleic acid is operably linked to vector further comprises~~ a heterologous promoter.
25. (Currently Amended) A cell transformed with [[the]] said vector of Claim 23.
26. (Previously Presented) The cell of Claim 25, wherein said cell is a plant cell or a microorganism cell.
27. (Currently Amended) A plant transformed with a heterologous gene comprising a nucleic acid sequence ~~at least 90% homologous to encoding~~ SEQ ID NO[[s]]: 2 + or 3, wherein said ~~gene nucleic acid~~ encodes a product that functions in division of a photosynthetic prokaryote or a plastid.
28. (Previously Presented) A plant cell of said plant of Claim 27.
29. (Currently Amended) A ~~transgenic~~ plant seed of said plant of Clam 27.
30. (Previously Presented) The plant of Claim 27, wherein said nucleic acid is operably linked to a heterologous promoter.